

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of)
LEONID B. GLEBOV, ET AL.)
Serial No: TBA)
Filed: Concurrently Herewith)
For: **SENSITIZATION OF PHOTO-THERMAL-REFRACTIVE GLASS TO VISIBLE**)
RADIATION BY TWO-STEP ILLUMINATION)

INFORMATION DISCLOSURE STATEMENT

Honorable Commissioner of Patents
and Trademarks
Washington DC 20231

Sir:

Pursuant to the requirements of 37 CFR 1.97 and 1.98, Applicant hereby requests that the references listed in the attached form PTO-1449 be considered and made of record in the above-identified application.

Favorable consideration of the application at an early date is respectfully solicited.

Respectfully submitted,

By: 

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Date: 9/19/03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No.: UCF-397CIP (which is a Continuation-In-Part of application SN: 09/648,293 filed 08/24/2000 and 09/750,708 filed 12/28/00).

Filed: ____/____/____

First Named Inventor: LEONID B. GLEBOV

For: SENSITIZATION OF PHOTO-THERMAL-REFRACTIVE GLASS TO VISIBLE RADIATION BY TWO-STEP ILLUMINATION

Examiner: Group:

INFORMATION DISCLOSURE STATEMENT

Honorable Commissioner of Patents
and Trademarks
Washington DC 20231


Sir:

Pursuant to 37 CFR §§ 1.97 and 1.98, record is being made below in a form PTO-1449 of documents which the Patent Office may wish to consider in connection with examination of the above-identified patent application. It is respectfully requested that the cited documents be carefully considered by the Examiner and made of record in this case. As provided in § 1.97(g), no representation is made or intended that a thorough art search was made. As provided in 37 C.F.R. § 1.97(h), this Supplemental Information Disclosure Statement does not constitute an admission of any kind, and specifically is not an admission that the documents listed on the attached PCT-1449 are, or are considered to be, material to the patentability of the above-identified patent application, as defined in 37 C.F.R. § 1.56(b).

Copies of the cited references were previously submitted to the USPTO in the parent application No.: SN: 09/648,293 filed 08/24/2000 and 09/750,708 filed 12/28/00 and made of record. Applicants claim priority to said application under 35 U. S. C. §120. Accordingly, copies of those documents are not provided with this Statement pursuant to 37 CFR § 1.98(d).

It is respectfully requested that the cited documents be carefully considered by the Examiner and made of record in the case.

Respectfully submitted,



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**US DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE**

APPLICANT: **LEONID B. GLEBOV**
FOR: **SENSITIZATION OF PHOTO-THERMAL-REFRACTIVE GLASS TO VISIBLE RADIATION BY TWO-STEP ILLUMINATION**

LIST OF ART CITED BY APPLICANT**U.S. PATENT DOCUMENTS**

EXAMINER	DOCUMENT NO.	NAME	DATE	CLASS	SUBCLASS
AA	4,541,694	Sullivan, et al.	09/17/1985	350	371
AB	5,098,803	Monroe, et al.	03/24/1992	430	1
AC	5,339,305	Curtis, et al.	08/16/1994	369	112

PATENT APPLICATION PUBLICATIONS

NONE

FOREIGN ART

FA	JP03-081718	Morinaka, et al.	04/08/1991
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- OA (1979) A.P. Gararin, L.B. Glebov, O.M. Efimov, O.S. Efimova. Formation of color centers in sodium calcium silicate glasses with the nonlinear absorption of powerful UV radiation. Sov. J. Glass Phys. Chem. 5, Pages 337-340.
- OB (08/1988) IBM Tech. Discl. Bull., Vol 31(3), pp. 18-23.
- OC (1996) P. Hariharan. Optical Holography. Principles, techniques, and applications. Chapter 7: "Practical recording materials," 95-124. Cambridge University Press, Pages 95-97.
- OD (1997) A.V. Dotsenko, L.B. Glebov, V.A. Tsekhomsky, Physics and Chemistry of Photochromic Glasses. CRC Press, Boca Raton, NY., Pages 9-11
- OE (1999) Efimov, et al. "Laser-induced Damage of Photo-Thermo-Refractive Glasses for Optical-Holographic-Element Writing", SPIE Vol. 3578, pp. 564-575
- OF (1999) O.M. Efimov, L.B. Glebov, S. Grantham, M. Richardson. Photoionization of silicate glasses exposed to IR femtosecond pulses. Journal of Non-Crystalline Solids, 253. 58-67.
- OG (2002) O.M. Efimov, L.B. Glebov, H.P. Andre. Measurement of the induced refractive index in a photothermorefractive glass by a liquid-cell shearing interferometer. Appl. Optics, 41. 1864-1871

US DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEAPPLICANT: EFIMOV, ET AL.
FOR: HIGH EFFICIENCY BRAGG GRATINGS IN PHOTO-THERMO-REFRACTIVE GLASSLIST OF ART CITED BY APPLICANT

Page 1 of 2

1c841 U.S. PTO
09/750708
12/28/00U.S. PATENT DOCUMENTS

EXAMINER	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
<i>an</i>	AA 3,640,604	02/08/72	YARNELL	350	162 SF	
<i>W</i>	AB 3,675,990	07/11/72	KOGELNIK, ET AL.	350	311	
<i>W</i>	AC 4,057,408	1/08/77	PIERSON, ET AL.	065	018	
<i>W</i>	AD 4,514,053	04/30/85	BORRELLI, ET AL.	350	162.2	
<i>W</i>	AE 4,567,104	01/28/86	WU	428	410	
<i>W</i>	AF 4,670,366	01/02/87	WU	430	13	
<i>W</i>	AG 4,894,303	01/16/90	WU	430	13	
<i>W</i>	AH 4,946,253	08/07/90	KOSTUCK	350	169	
<i>W</i>	AI 4,965,152	10/23/90	KEYS, ET AL.	430	01	
<i>W</i>	AJ 5,078,771	01/01/92	WU	65	30.11	
<i>W</i>	AK 5,196,282	03/23/93	KNOBBE	430	02	
<i>W</i>	AL 5,285,517	02/08/94	WU	385	142	
<i>W</i>	AM 5,486,934	01/23/96	HUANG	359	15	
<i>W</i>	AN 5,684,611	11/04/97	RAKULJIC, ET AL.	359	7	

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NONE

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- an* OA1 *Optical Holography Principles, techniques and applications*, second edition, P. Hariharan, Cambridge University Press.
- W* OA2 *Full-Color Photosensitive Glass*, S. Donald Stookey, George H. Beall and Joseph E. Pierson, Journal of Applied Physics, Vol. 49, No. 10, October 1978, pp. 5114 - 5123.
- W* OA3 *Photolytic Technique for Producing Microlenses in Photosensitive Glass*, Borelli, Morse, Bellman and Morgan, Applied Optics, Vol. 24, No. 16, August 15, 1985, pp. 2520 - 2525.
- W* OA4 *Photothermal Refractive Effect in Silicate Glasses*, Borgman, Glebov, Nikonorov, Petrovskii, Savvin and Tsvetkov, Sov. Phys. Dokl, Vol. 34, No. 11, November 1989, pp. 1011 - 1013

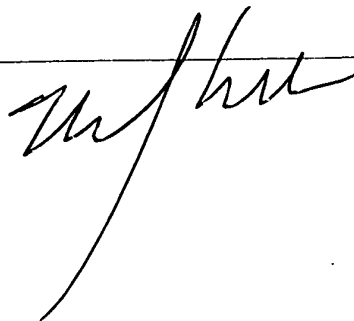
W *W* 9/20/02

US DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEAPPLICANT: EFIMOV, ET AL.
FOR: HIGH EFFICIENCY BRAGG GRATINGS IN PHOTO-THERMO-REFRACTIVE GLASSLIST OF ART CITED BY APPLICANT

Page 2 of 2

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

- OA5 *Polychromic glasses – A New Material for Recording Volume Phase Holograms*, Glebov, Nikonorov, Panysheva, Petrovskii, Savvin, Tunimanova and Tsekhomskii, Sov. Phys. Dokl, Vol. 35, No. 10, October 1990, pp. 878 – 880.
- OA6 *New Ways to Use Photosensitive Glasses for Recording Volume Phase Holograms*, Glebov, Nikonorov, Panysheva, Petrovskii, Savvin, Tunimanova, and Tsekhomskii, Opt. Spectrosc., Vol. 73, No. 2, August 1992, pp. 237 – 241.
- OA7 *Photo-Induced Processes in Photo-Thermo-Refractive Glasses*, Glebov, Glebova, Richardson and Smirnov, XVIII International Congress on Glass, San Francisco, CA, July 5 – 10, 1998.
- OA8 *High-Efficiency Bragg Gratings in Photothermorefractive Glass*, Efimov, Glebov, Glebova, Richardson and Smirnov, Applied Optics, Vol. 38, No. 4, February 1999, pp. 619 – 627.
- OA9 *Photo-Thermo-Refractive Glasses for High-Efficiency Bragg Gratings in UV, Visible, and IR Regions*, Efimov, Francois-Saint-Cyr, Glebov, Glebova, Richardson and Smirnov.



9/30/02

Notic of Referenc s Cited	Application/Control No. 09/750,708		Applicant(s)/Patent Under R examination EFIMOV ET AL.	
	Examiner Martin J Angebranndt		Art Unit 1756	Page 1 of 1

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*		Document Number Country Code-Number-Kind Code	Dat MM-YYYY	Nam	Classification
	A	US-4541694	09-1985	Sullivan et al.	350/371
	B	US-5098803	03-1992	Monroe et al.	430/1
	C	US-5339305	08-1994	Curtis et al.	369/112
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N	03-081718	04-1991	Japan	Morinaka et al.	
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	IBM Tech. Discl. Bull., Vol 31(3) pp. 18-21 (08/1988)
	V	Efimov , et al. "Laser-induced Damage of Photo-Thermo-Refractive Glasses for Optical-Holographic-Element Writing", Proc. SPIE Vol. 3578, pp. 564-575 (1999)
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.